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SUPERFUND DIVISION

GCA CORPORATION
Technology Division

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25 June 1985

U.S. EPA, Region VI
1201 Elm Street
Dallas, TX 75270

Attn: Mr. Alan Tavenner

Subject: Olin North Little Rock Endangerment Assessment
(GCA 1-625-072)

Dear Alan:

As we discussed in our telephone conversations of June 7 and June 21, I've prepared a summary of labor hours expended by GCA in the performance of this task. Attachment 1 details the type of activity and the hours required during the two "phases" of the project. Attachment 2 chronicles assignments and amendments made to this work assignment. I've also enclosed copies of all monthly reports submitted under this task.

Initially, GCA was requested by EPA to review existing data (11/83) and to recommend additional sampling and analysis needed to provide sufficient data to conduct the endangerment assessment. Listed as Item B on Attachment 1, these activities constitute Tasks 1 through 4 of the Work Plans submitted by GCA. Based on Amendment No. 1 (12/28/83) and the monthly report for December 1983, these activities appear to have been budgeted at approximately 200 TLH. Of note is that Task 4 is generally not part of an endangerment assessment and Tasks 1, 2 and 3 are generally of a lesser scope. Although some of the hours were spent on tasks that could also be applicable to work required for the EA, the long delay between initial review of site data and receipt of follow-up data (approximately 8 months) minimized the effective gains of the original data review. In addition, such a delay increases task management costs associated with verifying task status and writing monthly reports.

Item C of Attachment 1 provides a breakdown of hours dedicated to preparing the endangerment assessment. Estimating that perhaps 60 hours from Items A and B would also apply to the EA, a total of approximately 240 technical labor hours (TLH) were utilized for preparation of the EA. This is considerably less than the averages provided in the TES User Guide and only about one third of the current average of 750 to 800 TLH. These updated averages were presented to TES Regional Coordinators at a meeting at OWPE-HQ in late April 1985.

I hope this information clarifies the scope of this task and the level-of-effort thusfar expended by GCA. Following review of EPA comments on the Draft Final Report, I'll prepare an estimate of hours needed to address

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25 June 1985
Mr. A. Tavenner
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comments and to incorporate recommended revisions into the Final Report. If you wish to include new data obtained by EPA in the past year, I can also consider that in preparing my estimate.

If you have any questions regarding this submittal or preparation of the estimate of additional hours, please call me at 617-776-5400, ext. 409. I'll be back in the office on July 8.

Sincerely,

A handwritten signature in cursive script, reading "Barbara M. Myatt", with a long horizontal flourish extending to the right.

Barbara M. Myatt
Environmental Scientist

BMM/dt
Attachments
Enclosures
cc: R. Wilder

ATTACHMENT 1
Olin North Little Rock
Endangerment Assessment

BREAKDOWN OF EXPENDITURES

A. Ongoing activities from project initiation (11/83) through present (6/85):

Project Management	47 TLH
Quality Assurance (includes audits and review of work products)	16 TLH
	<hr/> 63 TLH

B. Activities prior to performing endangerment assessment (11/83-2/84):

Task 1. Review existing data (geologist, chemist-field sampler, task manager)	45 TLH
Tasks 2 and 3. Site visit; meet with EPA, FIT, State; and gather information from State/Regional agencies (Chemist, Geologist- 3 day trip)	48 TLH
Task 4. Prepare Sampling and Analysis Plan (Chemist-Field Sampler, Geologist, Task Manager)	56 TLH
	<hr/> 149 TLH

C. Activities applicable to preparation of endangerment assessment
(11/83-6/85)

o Site history, geology, hydrology, etc.	15
o Extent of contamination	25
o Contaminant transport and fate	30
o Exposure assessment	40
o Toxicity profiles	30
o Risk assessment	30
o Report preparation oversight	9
	<hr/> 179 TLH

TOTAL TECHNICAL LABOR HOURS -	391 TLH
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D. Nontechnical labor hours (11/83-6/85):

106 hrs.

(typists, technical illustrators,
reductions/reproductions, editorial/
management staff, printer operators, etc.)

E. Travel, material, other direct costs (approx.)

\$2,000

ATTACHMENT 2

CHRONOLOGY OF WA NO. 83-72

DATE	ACTION	SUMMARY OF ACTION
10/13/83	Original Work Assignment	EPA est. 80TLH, 1 week period of performance.
11/7/83	Original Work Plan	Based on telecons with D. Price (Region 6) and K. Garrahan (HQ), GCA estimated 400TLH and 8 month POP.
12/28/83	Amendment No. 1	Approved Work Plan but indicated to stop work at 200TLH with submittal of Sampling and Analysis Plan (Tasks 1 through 4).
1/84	Submittal of Sampling and Analysis Plan	
2/3/84	Amendment No. 2	EPA estimated addition of 100TLH (to approved level of 200TLH) to bring total to 300TLH. Telecon GCA with K. Garrahan (HQ) indicated EPA was considering reduced scope risk assessment.
4/84	Revised Work Plan	GCA responded with original estimate of 400TLH plus 8TLH for extended management time. Work Plan estimated 408TLH, 7 month POP.
6/8/84	Amendment No. 3	Extended POP through 9/30/84.
8/23/84	Amendment No. 4	Approved Revised Work Plan of 4/84; gave 408TLH, POP through 10/30/84.
4/85	Draft Final Report	Formal submittal of report; courtesy copy previously sent to J. Mullins (Region VI) on 2/15/85.